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(71) Applicant (for all designated States except US): TELE-FONAKTIEBOLAGET LM ERICSSON (publ) [SE/SE]; S-164 83 Stockholm (SE).

(72) Inventor; and
(75) Inventor/Applicant (for US only): HE, Shousheng [CN/SE]; Svärmarevägen 3, S-247 35 Södra Sandby (SE).

(74) Agent: ZACCO DENMARK A/S; Hans Bekkevolds Allé 7, DK-2900 Hellerup (DK).

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(54) Title: SYNCHRONISATION AND ESTIMATION OF A TRANSMISSION CHANNEL
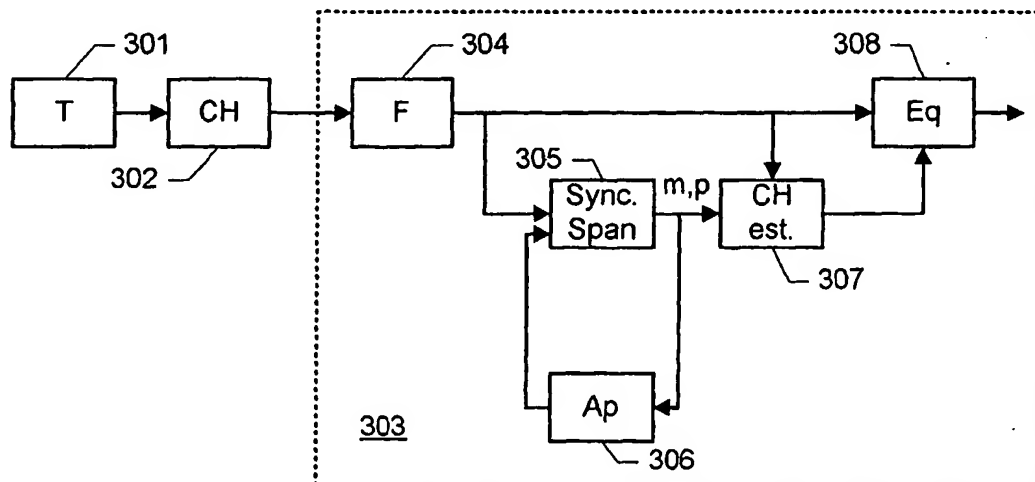
(57) Abstract: A method of estimating a transmission channel (302) comprises receiving a signal burst, which includes a sequence of training symbols; and determining (305) a desired synchronization position (p) of the training sequence with respect to the received signal burst. The method further comprises determining estimates of the transmission channel as a function of the synchronization position (p) and a size of the equalizer window (m); and determining the desired synchronization position and the size of the equalizer window by calculating an error measure based on the received signal burst and the determined estimates for selected values of the synchronization position and of the size of the equalizer window, where the values of the size of the equalizer window are selected between predetermined upper (m_u) and lower (m_l) bounds.

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